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# The EE Opportunity with Public Schools in RI



March 2019

# Agenda:

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- **Why is National Grid working with the public school market? Why now?**
- **What's our approach?**
- **Drivers and challenges**
- **Additional resources**
- **Questions and discussion**

# The RI Public School market opportunity

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- **Addressable market:**
  - **307 Public schools across state**
  - **Average building age - 63 years**
  - **Aggregated \$36,000,000 in annual energy spend**
  
- **Limited funding options for capital improvements in recent past (moratorium from RIDE)**



# Why Now?

## ■ Clear need exists:

- Estimated \$2,200,000,000+ in necessary repairs
- 20-25% are energy-related improvements

## ■ New financing options are now available:

- \$250,000,000 state bond approved by votes in Nov 2018
- Additional bonus system incentivizes communities to move quickly, support 'pay as you go' projects

## ■ Additional financial support available from munis

## ■ Most Districts have five year plan with RIDE (SBA)

# National Grid approach to this market

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- **Multiple paths to engaging school systems – National Grid aims to match services to scale and scope of need, school system ability / appetite to invest**
- **Typical approaches:**
  - **SEMP (Strategic Energy Management Partnership)**
  - **New construction / major renovations (RIDE)**
  - **Ongoing support for existing facility plans**



*Improve comfort, health, and productivity for building occupants while promoting increased sustainability*

# Strategic Energy Management Partnership (SEMP)

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- Approach borrowed from large C&I sector
- Long term plan that typically includes:
  - Savings goals/targets (10% - 30% above code)
  - Support and resources based on size and scope
  - Process to measure and sustain results



*Improve comfort, health,  
and productivity for building  
occupants while promoting  
increased sustainability*

# New Construction and Major Renovation (RIDE): >100,000 sf facilities

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- Supported through dedicated National Grid resource - team subject matter expert Denise Rouleau
- Provide technical and financial support for above code performance
- Involved early in process to influence specifications
- Ongoing education to market place influencers (architects and engineers)



*Improve comfort, health, and productivity for building occupants while promoting increased sustainability*

# **New Construction and Major Renovation (RIDE): <100,000 sf facilities**

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- **Managed through separate dedicated National Grid resource (Jerry Drummond)**
- **Provide technical and financial support for above code performance**

## **Continue plans with existing facilities plan**

- **No cost energy audits**
- **Information about new programs (RIASMD)**
- **URI Energy Fellow - Portfolio Manager**

## Additional offers available to school customers:

- No cost energy audits
- Information about new programs (RIASMD)
- URI Energy Fellow - Portfolio Manager

# Market drivers and challenges

<b>Drivers</b>	<b>Challenges</b>
<ul style="list-style-type: none"><li>• <b>30% energy saving opportunity (\$10,000,000 annual saving potential)</b></li><li>• <b>Connection to broader policy goals – safe, healthy learning environment for students</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Securing funding for large-scale capital improvement projects remains challenging</b></li><li>• <b>Required collaboration across multiple stakeholders impacts pace</b></li></ul>

# Additional Energy Management Services Available to School Systems

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- Zero Energy Buildings
- Electric Vehicles
- Computer Modeling for energy consumption
- EPA Portfolio Manager benchmarking with auto upload
- Funding options for additional measures

# Additional External Resources

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- RI Department of Education /School Building Authority
- Northeast Energy Efficiency Partnership
- Office of Energy Resources
- RI Infrastructure Bank – Efficient Buildings Fund
- URI Energy Fellow Intern

**Jerry Drummond - RI**  
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Thank you!  
Questions?

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## Questions and Discussion

